

FIGURE 1

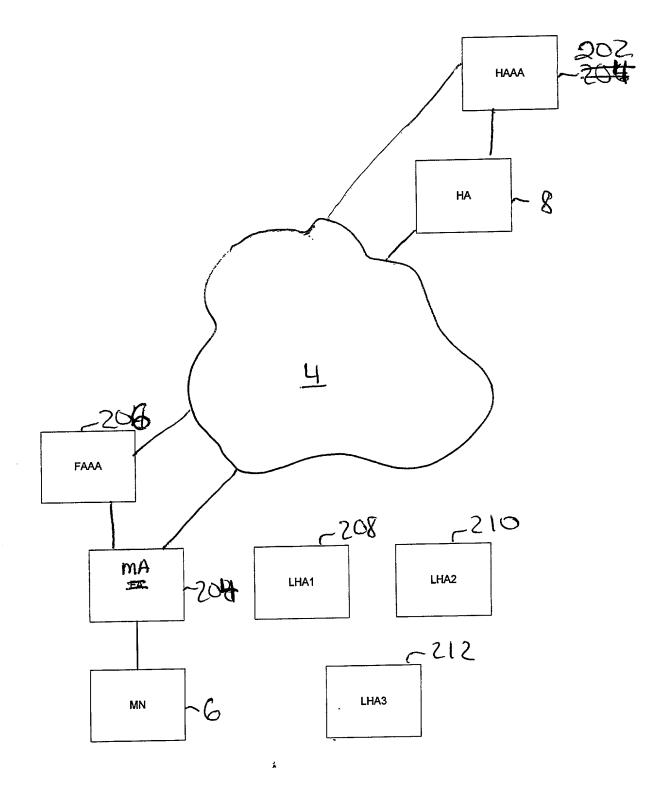
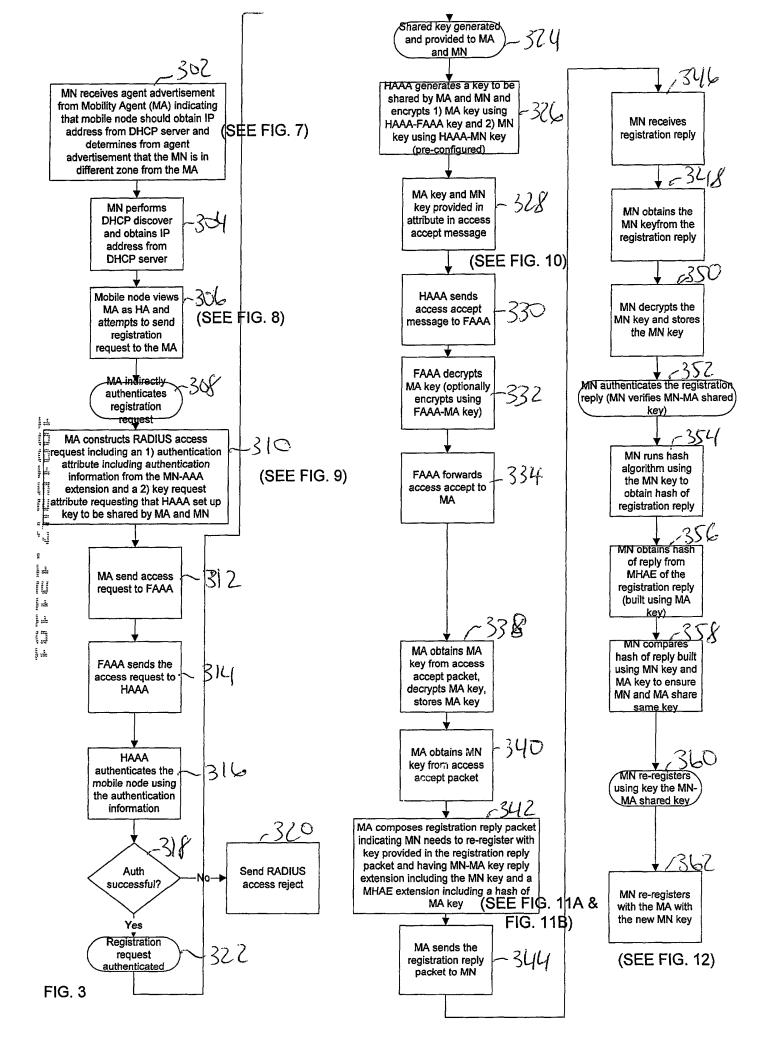
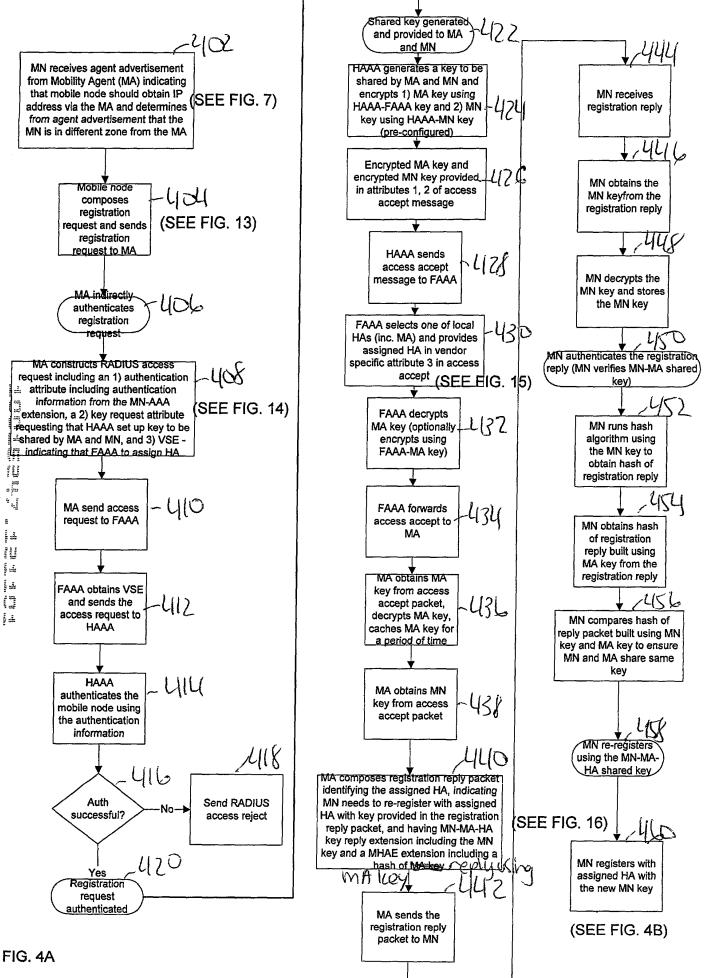
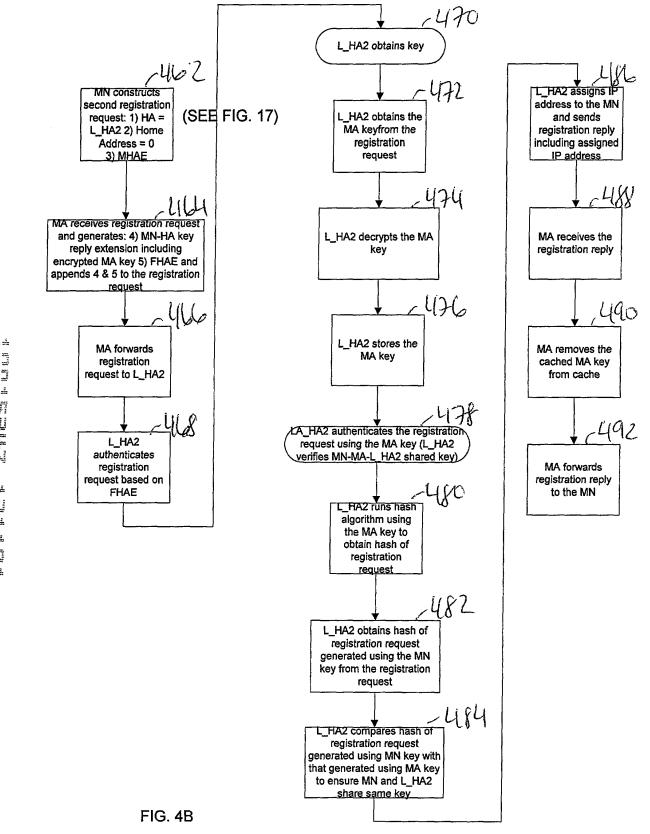
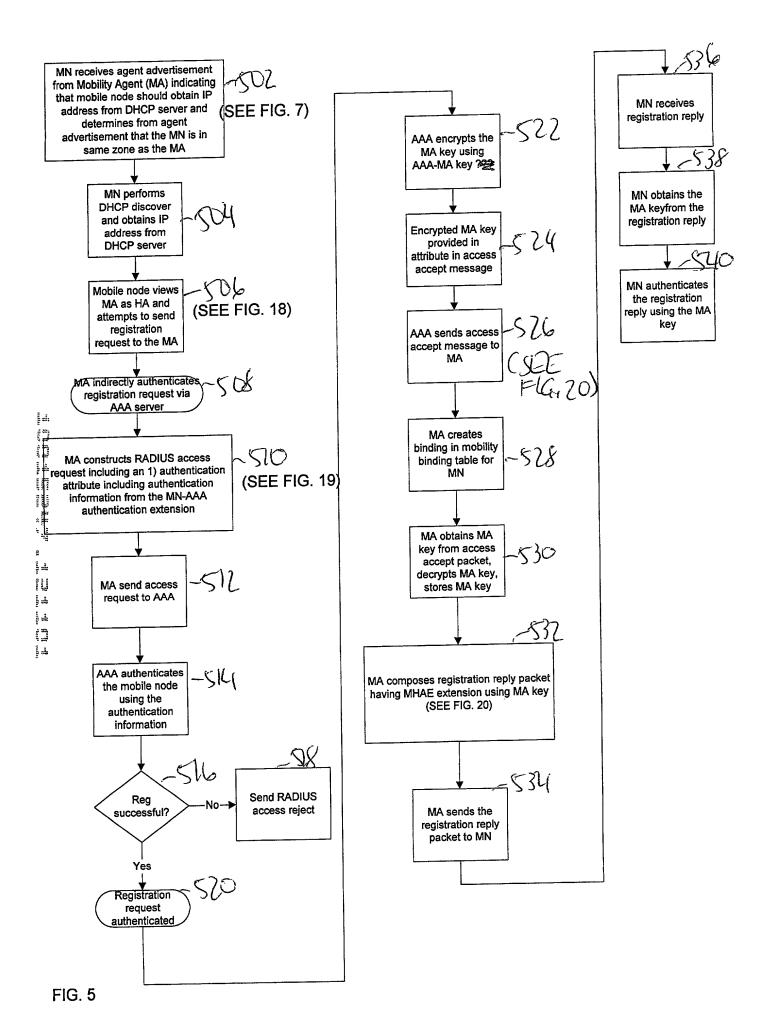


FIG. 2









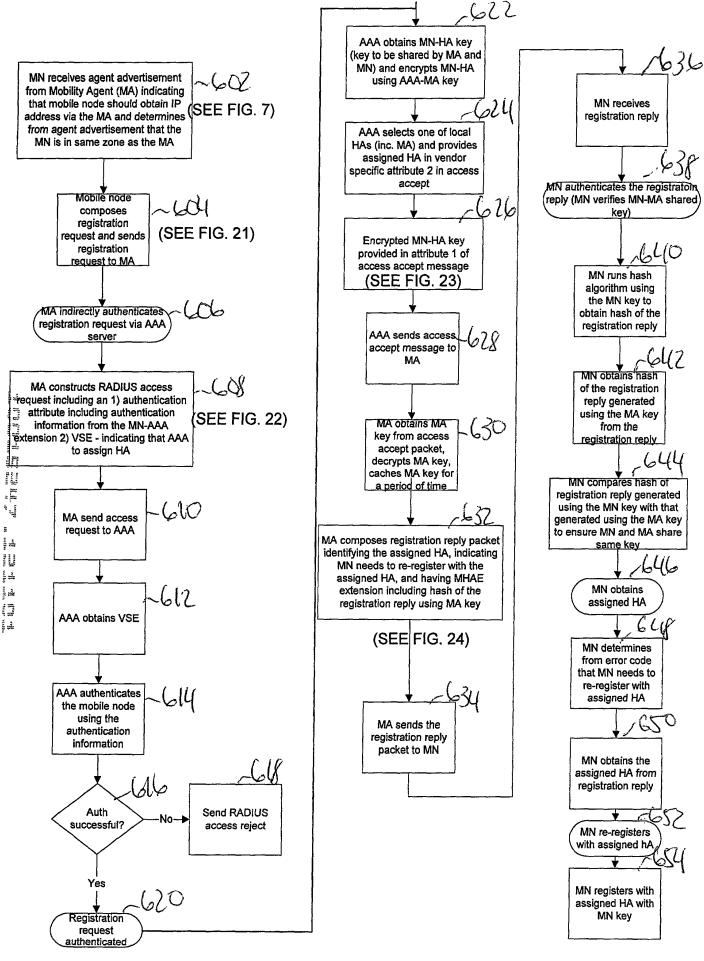
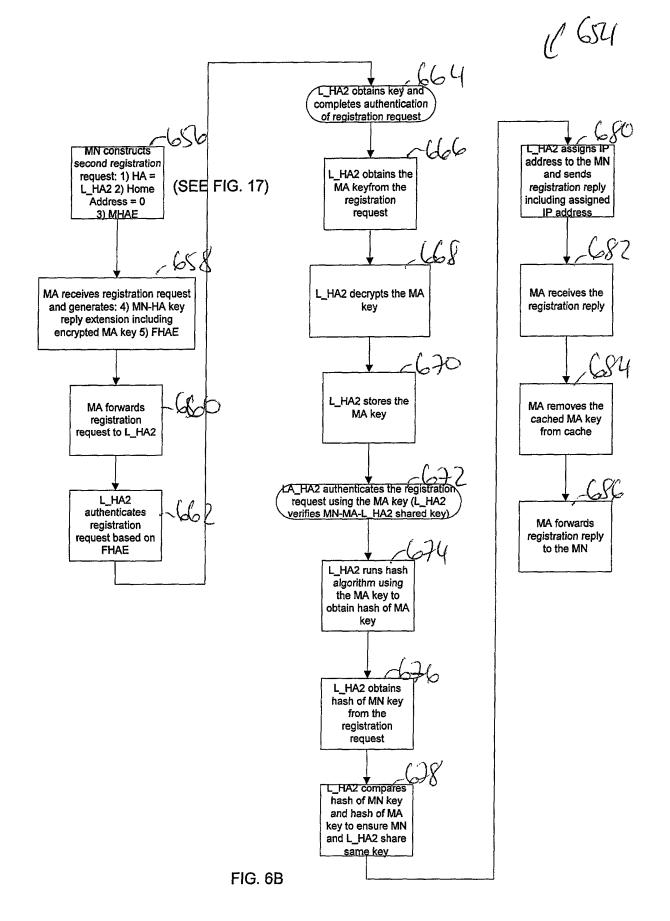


FIG. 6A



Mobility Agent Advertisement						
Agent advertisement - providing mobility services (e.g., H and F bit set)	Extension 1	l: Zone	Extension 2: Obtain IP address from DHCP server (or MA)			

FIG. 7

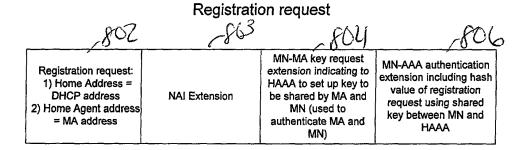


FIG. 8

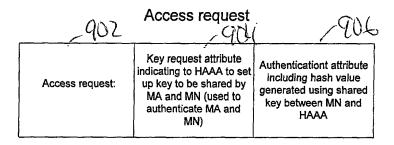


FIG. 9

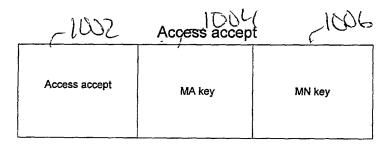


FIG. 10

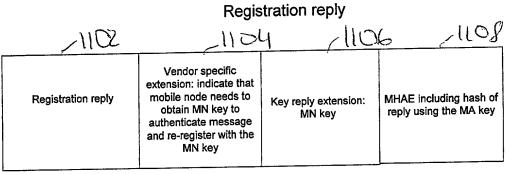


FIG. 11A

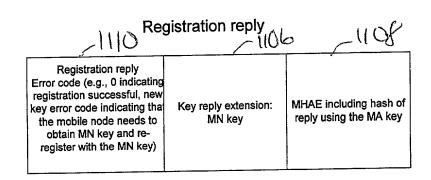


FIG. 11B

	registration request				
	02 80	3 1204			
Registration request: 1) Home Address = DHCP address 2) Home Agent address = MA address	NAI Extension	MHAE authentication extension including hash value generated using the MN key shared by the MN and the MA			

FIG. 12

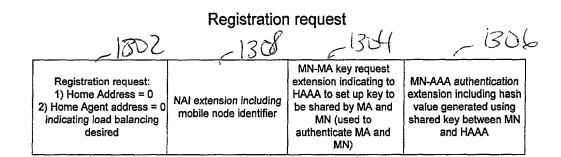


FIG. 13

### Access request

1402	1404	,1406	_1408
Access request:	Key request attribute indicating to HAAA to set up key to be shared by MA and MN (used to authenticate MA and MN)	Authentication attribute including hash value generated using shared key between MN and HAAA	Vendor specific attribute indicating FAAA to assign HA

FIG. 14

### Access accept

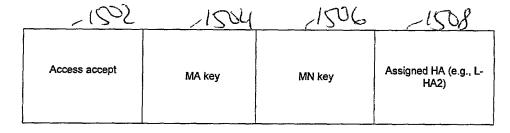


FIG. 15

# Registration reply | Columbia |

FIG. 16

160

Registration reply
Error code (e.g., 0 indicating
registration successful, new
key error code indicating that
the mobile node needs to
obtain MN key and reregister with the MN key)

## Registration request Registration request: 1) Home Address = 0 2) Home Agent address = 0 2) Home Agent address = assigned HA (e.g., L\_HA2) MHAE authentication extension including hash value of reply generated using the MN key shared by the MN and the MA MN-HA key reply extension including encrypted MA key FHAE (e.g., MA-L\_HA2)

FIG. 17

#### Registration request

Registration request:
1) Home Address =
DHCP address
2) Home Agent address
= MA address

= MA address

MN-AAA authentication extension including hash value generated using shared key (MA key) between MN and AAA

FIG. 18

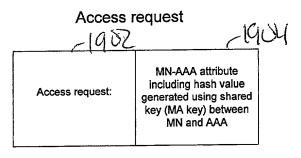


FIG. 19

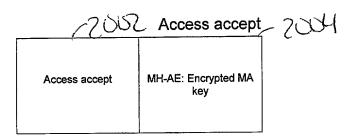


FIG. 20

### Registration request 2 0 2 2 0 4 Registration request: 1) Home Address = 0 2) Home Agent address = 0 indicating load balancing desired NAI extension including mobile node identifier mobile node identifier MN-AAA authentication extension including hash value generated using the shared key between MN and AAA

FIG. 21

Access request

2204

Access request:

MN-AAA attribute including hash value for shared key (MA key/MN-HA key) between MN and AAA

MN-AAA attribute extension indicating FAAA to assign HA and AAA

FIG. 22

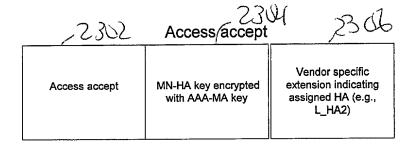


FIG. 23

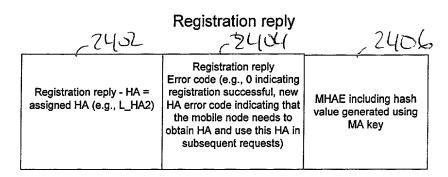


FIG. 24

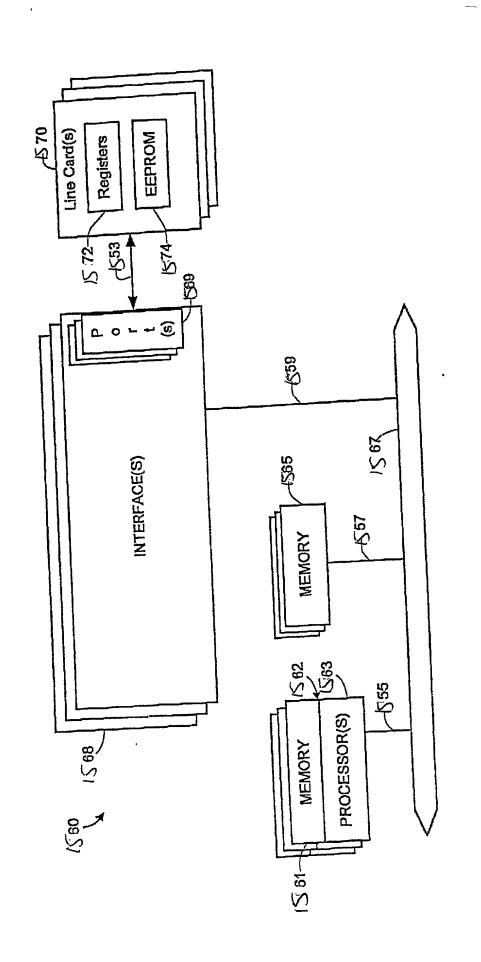


Figure 35